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January 15, 1992

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KM 7-112
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Ms. Donna R. Searcy, Secretary
Federal Communications Commission
1919 M Street, N.W., Room 222
Washington, D.C. 20554

Federal Communications Commission
Office of the Secretary

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JAN 15 1992

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

Re: Crescomm Transmission Services, Inc.;
Request for Pioneer Preference

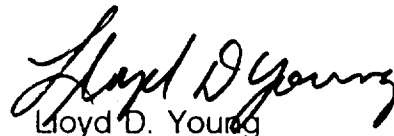
Dear Ms. Searcy:

Submitted herewith on behalf of Crescomm Transmission Services, Inc. are an original and four copies of a Request for Pioneer Preference pursuant to Section 1.402 of the Rules for the issuance of licenses for Digital Shipboard Earth Stations which would be licensed to communicate, utilizing C-band and/or Ku-band frequencies, with land-based, Fixed and Temporary-Fixed Earth Stations.

The undersigned has been advised that this Request for Pioneer Preference should be submitted in a pleading separate and apart from the Petition for Rulemaking, which was submitted on behalf of Crescomm Transmission Services, Inc. on December 12, 1991, and a copy of which is attached to this Request for Pioneer Preference.

Should there be any questions regarding these matters, please contact the undersigned.

Sincerely yours,


Lloyd D. Young

LDY:kao
Enclosures

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BEFORE THE
Federal Communications Commission
WASHINGTON, D.C.

ORIGINAL

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JAN 15 1992

Federal Communications Commission
Office of the Secretary

In the Matter of)

**AMENDMENT OF PART 80 OF
THE COMMISSION'S RULES**

For an Allocation of Frequencies)
for Digital Shipboard)
Earth Stations)

Docket No. _____
Rm. No. 2712

RECEIVED

JAN 15 1992

To: The Commission

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

REQUEST FOR PIONEER PREFERENCE

Crescomm Transmission Services, Inc. (herein "Crescomm"), by counsel hereby requests grant of a Pioneer Preference pursuant to Section 1.402 of the Commission's Rules, for the issuance of licenses for Digital Shipboard Earth Stations ("DSES") under the proposed new rules requested in a Petition for Rule Making^{1/} and for the issuance of a new rule or rules in Part 80, Stations in the Maritime Service, which was filed with the Commission on December 12, 1991. Under the proposed new rules, Digital Shipboard Earth Stations would be licensed to utilize C-Band and/or Ku-Band frequencies to communicate, from locations in Ocean, Sea and Coastal areas within the "foot print" of Satellite Systems, with Fixed and Temporary-Fixed Satellite Earth Stations.

^{1/}A copy of the Petition for Rulemaking is attached hereto and is hereby incorporated herein as a part of this Request for Pioneer Preference.

The requested Pioneer Preference would be for the grant of licenses for DSES stations on ships operating in Ocean, Sea and Coastal areas within the "foot print" of licensed Satellite Systems.

In support of this Request, the following are shown:

1. Crescomm hereby requests that it be granted a Pioneer Preference provided for under Section 1.402 of the Rules for the licensing of DSES's for operations on ships in Ocean, Sea and Coastal waters that are within the "foot print" of domestic and international satellite systems, for communications with Fixed and Temporary-fixed Satellite Earth Stations. Crescomm has proposed the adoption of new rules for licensing of DSES's on board ship in a Petition for Rulemaking filed on December 12, 1991. See Attachment A.

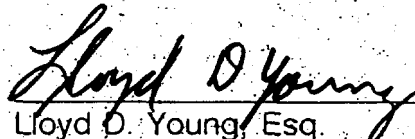
2. Crescomm submits that it has demonstrated in the Petition for Rulemaking that it has developed a new service, namely, the provision of shipboard digital earth stations having the capability for the provision of video, audio and high speed digital data communications links with Fixed and Temporary-Fixed Earth Stations. It has also brought the service to a more advanced state, namely to that of providing such stations on several cruise line ships in a commercial environment, as described in some detail in the Petition for Rulemaking. Additionally, the development of the DSES VSAT service has involved the use by Crescomm, as well as by PanAm Satellite, of Experimental STA's and licenses.

WHEREFORE, in view of the above, Crescomm Transmission Services, Inc. submits this Request for Pioneer Preference and requests a grant under Section 1.402 of the Rules of the above described Pioneer Preference in the issuance of new licenses for the areas served by such stations under the proposed new rule.

Respectfully submitted,

CRESCOMM TRANSMISSION SERVICES, INC.

By:



Lloyd D. Young, Esq.
Its Attorney

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P.O. Box 2126
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January 15, 1992

CRESCOMM TRANSMISSION SERVICES, INC.
REQUEST FOR PIONEER SERVICE

ATTACHMENT A

FILE COPY

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December 12, 1991

Ms. Donna R. Searcy, Secretary
Federal Communications Commission
1919 M Street, N.W., Room 222
Washington, D.C. 20554

Re: Crescomm Transmission Services, Inc.
Petition for Rule Making
Request for Pioneer Preference

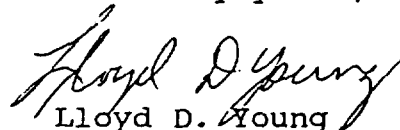
Dear Ms. Searcy:

Submitted herewith on behalf of Crescomm Transmission Services, Inc. are an original and four copies of a Petition for Rule Making. The Petition requests the initiation of a rule making proceeding and, pursuant thereto, the issuance of a new rule or rules in Part 80 of the Rules under which Digital Shipboard Earth Stations would be licensed to communicate, utilizing C-band and/or Ku-band frequencies with land-based, Fixed and Temporary-Fixed Earth Stations.

The Petitioner also requests grant of a Pioneer Preference for the issuance of licenses for such earth stations under the proposed new rules.

Should there be any questions regarding these matters, please contact the undersigned.

Sincerely yours,


Lloyd D. Young

LDY:kao
Enclosures

BEFORE THE
Federal Communications Commission
WASHINGTON, D.C.

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FEDERAL COMM. COMMISSION
OFFICE OF THE
SECRETARY

In the Matter of)

AMENDMENT OF PART 80 OF)
THE COMMISSION'S RULES)

for an Allocation of Frequencies)
for Digital Shipboard)
Earth Stations)

Docket No. _____
Rm. No. _____

To: The Commission

PETITION FOR RULE MAKING

Crescomm Transmission Services, Inc. (herein "Petitioner"), by counsel and pursuant to Section 1.401 of the Commission's Rules, hereby Petitions for Rule Making and for the issuance of a new rule or rules in Part 80, Stations in the Maritime Service, under which Digital Shipboard Earth Stations^{1/} would be licensed to utilize C-Band and/or Ku-Band frequencies to communicate, from locations in Ocean, Sea and Coastal areas within the "foot print" of Satellite Systems, with Fixed and Temporary-Fixed Satellite Earth Stations.

Petitioner also requests grant of a Pioneer Preference pursuant to Section 1.402 of the Commission's Rules, for the issuance of licenses for such Digital Shipboard Earth Stations (or "DSES's") under the proposed new rules, for Ocean, Sea and Coastal areas within the "foot print" of licensed Satellite Systems.

^{1/}Section 80.5 of the Rules defines a "ship station". The phrase "Digital Shipboard Earth Station", as used herein, means a ship station as defined in Section 80.5, which functions as a high speed digital satellite earth station (herein called "DSES").

In support of this petition, the following are shown:

BACKGROUND INFORMATION

1. Petitioner, a Utah corporation, is engaged in the business, among others, of providing domestic and international communication services by means of satellite earth stations licensed in the Domestic and International Satellite Services. These services consist of video, audio and high speed digital communications channels of various band widths operating through INTELSAT, PanAm Satellite, and other domestic and international satellite systems utilizing both C-band and Ku-band frequencies. Petitioner's facilities utilized for these services are operated under various FCC licenses in the Satellite Services.

2. With this background as an experienced operator of fixed and transportable satellite earth stations, Petitioner has developed a very small aperture terminal ("VSAT"), which will operate as a Digital Ship Earth Station (DSES) from a gyrostabilized platform mounted on board ship for communications via satellite with C-band and Ku-band Fixed and Temporary-Fixed Satellite Earth Stations. This DSES VSAT facility was initially successfully tested in a seaboard environment on board the LPH Iwo Jima in October 1987 for transmission of video, audio and digital data via Petitioner's Fixed Earth Station at Holmdel, NJ for the purpose of demonstrating that an at-sea commercial satellite up-link system on board a U.S. Navy ship for media pool support is feasible. During the Wood's Hole Oceanographic Institution's 1989 underwater exploration of sunken ships in the Mediterranean Sea,

the DSES VSAT facility was utilized again in a test environment for live transmission of educational video programming from a ship of foreign registry on location to museums throughout the United States and Canada for viewing by over 100,000 school children.^{2/} The DSES VSAT facility was subsequently successfully tested during May and June 1990 in a shipboard environment on board non-U.S. registry vessels engaged in deep sea exploration on location in the North Atlantic, for provision of full time command, control and operational video and high speed digital data communications links between the at-sea exploration site and the operational nerve center located at Holmdel, New Jersey via Petitioner's Fixed Earth Station facility.^{3/}

3. More recently the DSES VSAT facility has been tested successfully on board the M/V Dickerson Tide, a U.S. registry ship utilized by Westinghouse in support of a service being provided by the U.S. Army for benefit of the U.S. Armed Forces, U.S. Customs Service and the Drug Enforcement Agency for activities in international waters, with full time high speed digital data communications links being provided via PanAm Satellite's satellite space segment and Homestead, Florida earth station.^{4/} Petitioner

^{2/} The space segment was provided by PanAm Satellite under a Temporary Authority dated November 18, 1988.

^{3/} PanAm Satellite provided the space segment, under an Experimental STA (Call Sign KS2XAI).

^{4/} The shipboard station was provided by Petitioner under Experimental STA (Call Sign KS2XAJ; File No. S-0124-EX-91) and Experimental Construction Permit and License (Call Sign KI2XEE; File 2237-EX-PL-91). PanAm Satellite provided space segment under

is currently providing several DSES VSAT facilities on board a number of cruise line ships of foreign registry operating in Caribbean Sea areas within the "foot print" of the PanAm Satellite domestic satellite system. These DSES VSAT facilities are being utilized to provide full-time high speed digital links between the cruise line ships and cruise line operational headquarters located in South Florida.^{5/}

4. These DSES VSAT facilities are capable of communicating via other satellite systems with virtually any Fixed or Temporary-Fixed Earth Station operating on C-Band or Ku-Band. Petitioner has thus developed a commercially viable shipboard satellite earth station which can be technically and economically deployed for the provision of full time high speed digital links in numerous kinds of ship operations in Ocean, Sea and Coastal waters.

**AUTHORIZATION OF DIGITAL SHIPBOARD
EARTH STATIONS UNDER PART 80 IS REQUIRED**

5. Authorization of new Digital Shipboard Earth Stations under Part 80 of the Rules is required, along with an allocation of C-Band and Ku-Band frequencies for use by such earth stations on ships for communicating via Satellite Systems with satellite earth stations operating on C-Band and/or Ku-Band frequencies. Part 80 currently contains no allocation of frequencies for shipboard earth station which permits communications via satellite with C-Band

Experimental STA and License (Call Signs KS2XAI and KI2XET).

^{5/}The space segment is currently being provided by PanAm Satellite under an Experimental License (Call Sign KG2XLZ).

and/or Ku-Band earth stations. Currently, all shipboard satellite earth stations must operate under the auspices of INMARSAT, irrespective of whether the land based points of communications are U.S. domestic points or foreign points.^{6/}

6. However, INMARSAT's facilities and services are dedicated largely, if not entirely, to the provision of message telephone services. Tariffs on file with FCC for INMARSAT services do not include an offering which will accommodate Petitioner's or any other party's needs for full-time, uninterrupted, both way, video, audio and high speed digital data channels. While Comsat Tariff No. 102 includes some offerings of 56 kbps and 64 kbps circuits, they provide only for one way service "on a temporary and preemptible basis". The full time, high capacity needs of Petitioner's services cannot be met by INMARSAT's tightly limited services, which will be preempted whenever INMARSAT message traffic volumes peak to existing capacity limits.

7. Moreover, INMARSAT circuits terminate at earth stations at Southbury, Connecticut and Paolo Alto, California, and accordingly require extensive and costly domestic landline extensions to reach Petitioner's customer locations in South Florida and elsewhere. The ability of shipboard stations to communicate with customer locations in South Florida and at other locations away from Connecticut and California by means of nearby earth stations will greatly reduce the cost of landline extensions

^{6/}See, 47 C.F.R. § 80.51(b) (1989).

facilities, resulting in commensurate saving to the ultimate user of the services.^{1/}

TEXT OF PROPOSED RULE

8. Petitioner proposes that the text of the new rule, to be added to Part 80, be essentially as follows:

"Digital Shipboard Earth Stations.

(a) Digital Shipboard Earth Stations may be licensed for operation on board ships.

(b) Digital Shipboard Earth Stations may communicate while within the service area, or "foot print", of Satellite Systems with Fixed and Temporary-Fixed Earth Stations on the following frequencies:

<u>Shipboard Station</u> <u>Transmit</u>	<u>Earth Station</u> <u>Receive</u>
5.925- 6.425 GHz	3.700- 4.200 GHz
14.000-14.500 GHz	11.700-12.200 GHz
<u>Receive</u>	<u>Transmit</u>
3.700- 4.200 GHz	5.925- 6.425 GHz
11.700-12.200 GHz	14.000-14.500 GHz

9. A new subparagraph (d)(5) should be added to Section 80.15, Eligibility for License, as follows: "(d)(5) Owner or operator of a ship station." This broader eligibility for licensing will permit providers of Digital Shipboard Earth Stations such as Petitioner to be the licensee of the ship stations which they utilize to provide satellite services to ship owners and

^{1/}The use of PanAm Satellite's facilities as the space segment for the experimental uses of Petitioner's DSES VSAT facilities on board ship, as described herein, have been coordinated under the notification and consultation procedures of Article XIV(c) of the INTELSAT protocols and Article 8 of the INMARSAT convention. Such procedures would, of course, be pursued with respect to any licensing procedures under the new rules proposed herein.

operators.

**AFFECTS ON
INTERESTS OF PETITIONER**

10. As noted above, there is no current rule in Part 80 or elsewhere in the Commission's Rules which provides for the licensing of earth stations on board ships and for the provision of communications from such ship stations via satellite to Fixed and Temporary-Fixed Satellite Earth Stations. Petitioner, nonetheless, obtained Experimental STA and, subsequently, an Experimental Construction Permit and License, which has permitted testing of its DSES VSAT facilities during the provision of communications channels for the Westinghouse service to the U.S. Armed Forces, U.S. Customs Service and Drug Enforcement Agency activities in international waters described above. Under Section 5.63 of the Rules, such experimental licenses are granted for a two year period. However, no provision is made for renewal for an additional period, except perhaps upon a showing of extraordinary need. Moreover, such licenses may be utilized only for the purposes set forth in Section 5.202 of the Rules.

11. Because of the regulatory limitations on the permitted uses of an Experimental License as well as that of a brief two year license period, Petitioner's current Experimental License provides no foundation for the continued investment in, and growth of, the provision of full time video and high speed digital data channels to cruise lines and other ship operations having need for such services. The proposed regularization of the service, by means of

the new rules proposed herein, would provide a regulatory environment that will encourage continued investment in the development and growth of Petitioner's DSES VSAT services for ships and ship operators, and accordingly will serve the public interest.

REQUEST FOR PIONEER PREFERENCE

12. Petitioner hereby requests further that it be granted a Pioneer Preference provided under Section 1.402 of the Rules for the licensing of Digital Shipboard Earth Stations for operations on ships in Ocean, Sea and Coastal waters that are within the "foot print" of domestic and international satellite systems, for communications with Fixed and Temporary-fixed Satellite Earth Stations.

13. Petitioner submits that it has demonstrated herein above that it has developed a new service, namely, the provision of shipboard digital earth stations having the capability for the provision of video, audio and high speed digital data communications links with Fixed and Temporary-Fixed Earth Stations. It has also brought the service to a more advanced state, namely to that of providing such stations on several cruise line ships in a commercial environment. Additionally, the development of the DSES VSAT service has involved the use by Petitioner, as well as by PanAm Satellite, of Experimental STA's and licenses.

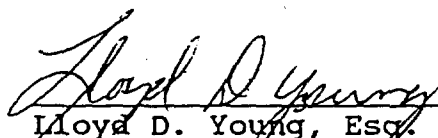
WHEREFORE, in view of the above, Petitioner Crescomm Transmission Services, Inc. submits this Petition for Rule Making and requests that the new proposed rules described above be added to Part 80 of the Rules. Petitioner further requests a grant of

the above described Pioneer Preference in the issuance of new licenses for the areas served by such stations under the proposed new rule.

Respectfully submitted,

CRESCOMM TRANSMISSION SERVICES, INC.

By:


Lloyd D. Young, Esq.
Its Attorney

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December 12, 1991